

Agricultural Marketing Service
Cotton Division
Standards and Testing Branch
Testing Section
Fiber and Spinning Laboratory
Physical Science Aid, GS-1311-2

SJ CN10

I. INTRODUCTION

This position is located in the Fiber and Testing Laboratory, Clemson, South Carolina, where fiber, spinning, weaving and chemical finishing tests are made on cotton from all cotton growing sections of the United States and from foreign countries.

The major functions of the laboratory are the testing of cotton fibers and yarns; the manufacture of small samples of cotton into yarn, cord, and fabric; the chemical finishing of cotton and cotton products; the quality evaluation of cotton through results from these tests; and to suggest practical applications of the findings to cotton breeders, textile men and others for practical use.

II. DUTIES AND RESPONSIBILITIES

The incumbent assists in conducting yarn, fabric, and fiber tests and other related testing functions within the laboratory which includes operation of the testing instruments and machines used in cotton yarn, fabric, and fiber testing and prepares and conditions, for testing, yarn, fabric, and fiber samples.

The incumbent identifies and labels samples, giving careful attention to details to insure that they are not mixed or crossed and to store them when the tests are completed; prepares and conditions skeins from each lot of cotton spun; prepares yarn grading boards; checks color schemes of tests for correspondence with those on yarns; measures nep content of ginner cotton lint; breaks skeins on Scott Tester to obtain strength and calculate size by use of a calculator and reference chart; prepares and performs fiber sample tests; makes calculations to obtain results reported; checks for accuracy and tabulates the results to be reported; and measures the color of cotton yarn.

III. JOB CONTROLS

A. Responsibility for the Work of Others: None

- B. Supervision and Guidance Received: The employee works under the immediate supervision of a higher grade Physical Science Aid. The laboratory has detailed instructions available in the form of procedure manuals, memoranda, etc., that cover most technical phases of the testing work.

The supervisor advises and assists the incumbent as requested or when the supervisor detects the need for such assistance. When the volume of work requires, one of several employees in the laboratory is assigned to work with the incumbent.